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Biometric identification

[psu.edu](#) [PDF]

A Jain, L Hong, S Pankanti - Communications of the ACM, 2000 - portal.acm.org

... Two primary components of a **biometric**-based identification system are the feature extractor and matcher. ... typically consists of a list of the **locations** and other attributes (for example, orientation of ... image; (d) input minutiae set overlaid on the input image; (e) **template** minutiae set ...

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[CITATION] Vital signs of identity [biometrics]

[uijles](#) [PDF]

B Miller - IEEE spectrum, 1994

[Cited by 282](#) - [Related articles](#) - [All 4 versions](#)

[CITATION] Biometric Identification in Large Population

JL Cambier - Information Security Bulletin, 2000

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A fuzzy commitment scheme

[hkbu.edu.hk](#) [PDF]

A Juels, M Wattenberg - Proceedings of the 6th ACM conference on ..., 1999 - portal.acm.org

... of the image of h. For a standard hash function like SHA-1, the fuzzy commitment of a **biometric template** is only 20 bytes longer than the **template** itself. The following small example is intended to provide some flavor of how authentication would work under a fuzzy com ...

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[PDF] Biometric authentication systems

[psu.edu](#) [PDF]

V Matyas Jr, Z Riha - 2000 - Citeseer

... 12 Source: UltraScan [17] This is an example of a fingerprint bitmap image obtained by an ultrasonic fingerprint reader. ... In the decision process, the **biometric** system tries to find a minutiae transformation between the current distribution and the stored **template**. ...

[Cited by 12](#) - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)

[BOOK] Audio-visual person recognition for security and access control

[jisc.ac.uk](#) [DOC]

F Deravi - 1999 - jisc.ac.uk

... An example of this would be the subsidised (VAT-free) use of university catering facilities which is only ... with access via a single source to the two least intrusive, lowest cost **biometric** solutions available ... The size of the face print **template** is 600 to 3500 bytes depending on the ...

[Cited by 5](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

[PDF] Ensuring integrity with fingerprint verification

[psu.edu](#) [PDF]

M Pettersson, M Obrink - Precise Biometrics White Paper AB, 2001 - Citeseer

... This also makes the Smart Card a suitable carrier of **biometric templates**. ... For digital signing of for example a contract, the user presents the Smart card to the card reader ... If the presented fingerprint image matches with the **template** stored in the Smart Card, the contract is signed ...

[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [All 2 versions](#)

Biometrics—real identities for a virtual world

M Reyman-Greene - BT Technology Journal, 2001 - Springer

... For example, no **biometric** can guarantee ... Iris recognition systems, with effective **template** sizes of 256 bytes, have the potential of distinguishing between members of large populations, based upon research data obtained from thousands of pairs of eyes [3]. In contrast, hand ...

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Performance Analysis of Smart Card-based Fingerprint Recognition for Secure User Authentication

YH Gil, Y Chung, D Ahn, J Moon, H ... - Towards the E-Society: E- ..., 2001 - books.google.com

... However, most of these systems have a common characteristic that the **biometrics** authentication process is solely accomplished out of the smart card processor [3]. For ... To heighten security level, the comparison of the master **template** with the fingerprint **sample** needs to be ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Networked biometrics systems—requirements based on iris recognition

MM Gifford, DJ McCartney, CH Seal - BT Technology Journal, 1999 - Springer

... user has unsupervised access to the client **biometrics**-capture device, anti-tamper methods need ... for such access will depend upon the application, for example, for building access, one ... a small payment limit for which authorisation is taken on trust (the **biometric template** can in ...

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[PDF] The Body As a Password: Considerations, Uses, and Concerns of Biometric Technologies

[georgetown.edu](#) [PDF]

MC Frye - 2001 - georgetown.edu

... about 2%. 16 in a **biometric** verification system, false accepts are rare because the **sample** is only compared to the corresponding **template** of the user's claimed identity. For a **biometric** identification system, the **sample** is compared to all of the other **templates** in the database. ...

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[PDF] Secure coprocessing applications and research issues

[psu.edu](#) [PDF]

SW Smith - Los Alamos Unclassified Release LA-UR-96-2805, Los ..., 1996 - Citeseer

... If Alice compromises the **template** database at any installation that uses a particular **biometric** ... that installation's users anywhere else they are registered and that uses the same **biometric**. For example, suppose Bob's workplace and school both use fingerprints; if Alice breaks into ...

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[\[PDF\] Laboratory evaluation of the iriscan prototype biometric identifier](#)

[unh.edu](#) [PDF]

F Bouchier, JS Ahrens, G Wells - Sandia National Laboratories, ..., 1996 - ece.unh.edu

... Volunteers were solicited by posters placed in buildings around the test **location**. Approximately 400 eyes were previously enrolled in the system by the manufacturer, several of them were ...

biometric sample is a close enough match to the enrolled **template** that matches that ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)

[\[CITATION\] Development of personal authentication system using fingerprint with digital signature technologies](#)

Y Ische, Y Seto, M Kataoka - System Sciences, 2001. Proceedings of the 34th ..., 2001

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[\[PDF\] Image analysis and pattern recognition in biometric technologies](#)

[ucalgary.ca](#) [PDF]

J Soldek, V Shmerko, P Phillips, G ... - Proc. of the 4-rd Int. ..., 1997 - enl.ucalgary.ca

... Typically, a number **samples** are taken at time (speech, signature) and processed in accordance with a ... It should be said some words on compression methods for **biometric** information ... instance, instead of storing an actual image of the fingerprint as the **template**, most verification ...

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[\[CITATION\] Noise-resistant pulse oximetry using a synthetic reference signal](#)

FM Coetzee, Z Elghazzawi - IEEE Transactions on Biomedical Engineering, 2000

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[Smart cards in electronic commerce](#)

NT Trask, MV Meyerstein - BT Technology Journal, 1999 - Springer

... provided with smart cards holding their on-line banking log-in, PIN and fingerprint **template**. ...

Although **biometrics** will be the way forward to replace the imperfect technology of passwords and ... dependent upon the computer operating system in use, but is an example of exploiting ...

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[psu.edu](#) [PDF]

R Zunkel - Biometrics, 1999 - Springer

... For example, if three people enter the trap, the scanner requires three verifications from three ... his or her account, club administrators restore his or her ID and **template** to an ... Software used in this application can enhance **biometric** access by displaying the member's name and ...

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Biometrics and Digital Signatures in Electronic Commerce

[Jueneman.com \[PDF\]](#)

RR Jueneman, RJ Robertson Jr - Jurimetrics, 1997 - HeinOnline


... use of a password to encrypt the key (what he knows) or a **tamper**-proof hardware ... For example, the Utah statute merely provides that "a court of this state shall presume" the ... **Biometrics** and Digital Signatures in Electronic Commerce bubble" theory." The Illinois Act, on the other ...

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Cardholder verification realities at point-of-sale

I Chandler - Information Security Technical Report, 1999 - Elsevier

... but there are a number of common concerns which the prudent designer should address. ... is secure) may facilitate access by an intruder through intentional disabling of the **biometric**. ... Some systems update the **templates** to track such drift although this approach could be ...

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A Juels, M Wattenberg - Proceedings of the 6th ACM conference on ..., 1999 - portal.acm.org
 ... plus the length of the image of h. For a standard hash function like SHA-1, the fuzzy commitment of a **biometric template** is only 20 bytes longer than the **template** itself ... Example 2 Let us extend our simple zero-one-block **code** of Example 1 and consider its apphcatwn to a toy ...

[Cited by 419](#) - [Related articles](#) - [All 13 versions](#)[citation] Vital signs of identity [biometrics][ujiles \(PDF\)](#)

B Miller - IEEE spectrum, 1994

[Cited by 262](#) - [Related articles](#) - [All 4 versions](#)Networked **biometrics** systems—requirements based on iris recognition

MM Gifford, DJ McCartney, CH Seal - BT Technology Journal, 1999 - Springer

... This configuration was adopted because the current **software** components from IrIScan do not allow the ... The primary concern is about the use of a single source of **biometrics** for a ... The danger is that the **biometric template** could be used as a discriminatory key, disadvantaging ...

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V Matyas Jr, Z Riha - 2000 - Citeseer

... In the decision process, the **biometric** system tries to find a minutiae transformation between the current distribution and the stored **template**. ... **Biometric Systems** 14 Source: PRIP MSU [11] The minutiae matching is a process where two sets of minutiae are compared to de- cide ...

[Cited by 12](#) - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)Performance Analysis of Smart Card-based Fingerprint Recognition for Secure User Authentication

YH Gil, Y Chung, D Ahn, J Moon, H ... - Towards the E-Society: E- ..., 2001 - books.google.com

... To heighten security level, the comparison of the master **template** with the fingerprint **sample** needs to be performed by the in-card processor ... The methods of assigning access security can be controlled through use of a PIN or a **biometric template** or using cryptography ... **Software** ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Biometrics and Digital Signatures in Electronic Commerce[jueneman.com](#) [PDF]

RR Jueneman, RJ Robertson Jr - Jurimetrics, 1997 - HeinOnline

... level certificate must be installed in the relying party's **software** by a ... technology, see Bruce SCHNEIER, APPLIED CRYPTOGRAPHY, PROTOCOLS, ALGORITHMS AND SOURCE CODE IN C ... **Biometrics** and Digital Signatures in Electronic Commerce more likely to contain some ...

Cited by 19 - Related articles - BL Direct - All 4 versions

[book] Audio-visual person recognition for security and access control[jisc.ac.uk](#) [DOC]

F Deravi - 1999 - jisc.ac.uk

... with T-NETIX's SpeakEZ Voice Print(sm) Speaker Verification, "providing customers with access via a single source to the two least intrusive, lowest cost **biometric** solutions available today." ... The size of the face print **template** is 600 to 3500 bytes depending on the application ...

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Biometrics—real identities for a virtual world

M Rejman-Greene - BT Technology Journal, 2001 - Springer

... For example, unless proper security policies are adhered to, it may be relatively easy for ... images from the sensor and for comparison with a securely stored **template**, together with a ... The wide variety of **biometric** methods, devices, algorithms and applications led to differing views ...

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[citation] Noise-resistant pulse oximetry using a synthetic reference signal

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... If Alice compromises the **template** database at any installation that uses a particular **biometric** ... that installation's users anywhere else they are registered and that uses the same **biometric**. For example, suppose Bob's workplace and school both use fingerprints; if Alice breaks into ...

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MC Frye - 2001 - georgetown.edu

... about 2%. 16 In a **biometric** verification system, false accepts are rare because the **sample** is only compared to the corresponding **template** of the user's claimed identity. For a **biometric** identification system, the **sample** is compared to all of the other **templates** in the database. ...

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S MOGANESHWARAN, O RAJASEGARAN - 1986 - psm.fke.utm.my

... 114 M Source **Code** of Main File of Hand Vein System for the ... processing, extraction of the **biometric** feature from the image and authenticate the **template** stored in database. ... Currently, hand vein is gaining popularity and has become new technology in **biometric** system. ...

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Smart cards in electronic commerce

NT Trask, MV Meyerstein - BT Technology Journal, 1999 - Springer

... provided with smart cards holding their on-line banking log-in, PIN and fingerprint **template**. ... Although **biometrics** will be the way forward to replace the imperfect technology of passwords and ... dependent upon the computer operating system in use, but is an example of exploiting ...

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[PDF] Image analysis and pattern recognition in biometric technologies

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J Soldek, V Shmerko, P Phillips, G ... - Proc. of the 4-rd int. 1997 - enelucalgary.ca

... As the most evident example, we consider here the following BTs: hand geometry, signature and handwriting, face recognition finger and palm print, iris and retina scanning. ... Signature Voice

Template Fingerprint ... Fig.9. Space requirements for various **biometric** data storage

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[PDF] Subscriptions of SECURE—The Silicon Trust Quarterly Report can be obtained at: www.silicon-trust.com

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... solutions. The company has since developed into a security **software** developer specializing in authentication and in the last 3 years has focused on the development of **biometric** solutions for the corporate enterprise. ISL is ...

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From smart cards to smart objects: the road to new smart technologies

D Praca, C Barral - Computer networks, 2001 - Elsevier

... Fig. 2. **Biometrics** framework. View Within Article. ... Fig. 5. MEMS micro-resonator **sample**. View Within Article. 3.4. Biometrical sensors. ... But total security is not fully assured because image capture is done with an external sensor and the session **template** is sent to the card. ...

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Hand geometry based verification

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R Zinkel - Biometrics, 1999 - Springer

... For example, if three people enter the trap, the scanner requires three verifications from three ... his or her account, club administrators restore his or her ID and **template** to an ... **Software** used in this application can enhance **biometric** access by displaying the member's name and ...

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F Bouchier, JS Ahrens, G Wells - Sandia National Laboratories, ..., 1996 - ece.unh.edu

... The remote computer connection facilitated backing up **templates**, updating **software**, and performing other system management tasks. ... 8 Page 9. **biometric sample** is a close enough match to the enrolled **template** that matches that . identity. ...

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I Chandler - Information Security Technical Report, 1999 - Elsevier

... and rarely allow potential purchasers to perform a detailed analysis of their **code** to search for ... is secure) may facilitate access by an intruder through intentional disabling of the **biometric**. ... Some systems update the **templates** to track such drift although this approach could be ...

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